

20001204.qrp v02_n026.qrl.20001204

Date: Mon, 4 Dec 2000 19:03:13 EST

From: qrp-l@Lehigh.EDU

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Subject: QRP-L digest 2026

QRP-L Digest 2026

Topics covered in this issue include:

- 1) [85393] Re: MIZUHO 10m qrp handheld
by Junichi Nakajima <nakaji@crl.go.jp>
- 2) [85394] FOX Cub - 4 December 2000 - correction of the correction (2)
by "Brian B. Riley, N1BQ" <n1bq@wulfdn.org>
- 3) [85395] Looking for small transmitters, 144 and 440 Mhz
by Michael Neverdosky <mneverdosky@earthlink.net>
- 4) [85396] ARCI Sprint K0FRP
by "al dawkins" <alk0frp@home.com>
- 5) [85397] Re: Help: Looking for 160 meter kit information
by Phil Wheeler <w7ox@earthlink.net>
- 6) [85398] QRP-ARCI Holiday Sprint
by Bill Stietenroth <k5zty@juno.com>
- 7) [85399] WYOMING U SAY?
by hamjoel@juno.com
- 8) [85400] RE: 160mtr contest
by "Joe Malloy" <jmalloy@hamilton.edu>
- 9) [85401] Missed The Latest QRPp
by "Mike Rhodes" <weightdn@bright.net>
- 10) [85402] Notes on Moding the GA Sierra to 6 meters
by Sam Billingsley <SBillingsley@usaninc.com>
- 11) [85403] Milliwatting Fun hunting Counties
by Larry S Cahoon <wd3p@juno.com>
- 12) [85404] Re: Battery Voltage "The VOLTER"
by George Gingell <k3tks@u1.abs.net>
- 13) [85405] Warbler kits to ship week of Dec 11 from NJQRP
by "George Heron N2APB" <n2apb@erols.com>
- 14) [85406] Re: PSK-40 New Small Wonder
by Phil Wheeler <w7ox@earthlink.net>
- 15) [85407] WB3AAL HB Sprint
by "Ron Polityka" <wb3aal@fast.net>
- 16) [85408]
by putska@juno.com
- 17) [85409] RE: Battery Voltage "The VOLTER"
by George Gingell <k3tks@u1.abs.net>
- 18) [85410] Re: PSK-40 New Small Wonder
by "George Heron N2APB" <n2apb@erols.com>
- 19) [85411] FS: IC-740 Service Manual (Original)

- by K5BDZ@aol.com
- 20) [85412] Re: Square Coaxial Transmission Line
by Jeff Dairiki <dairiki@dairiki.org>
 - 21) [85413] W0UFO now warbling
by MertNellis@aol.com
 - 22) [85414] FS: OHR DD-1 Digital Display
by "Tim Cook" <timcook@erinet.com>
 - 23) [85415] Re: PSK-40 New Small Wonder
by Phil Wheeler <w7ox@earthlink.net>
 - 24) [85416] 160m contest, complained too soon
by "Bob Tellefsen" <n6wg@earthlink.net>
 - 25) [85417] Re: ARCI:tu K0EVZ, K5ZTY, N4BP, N5IW, WA7FLY
by Bob Patten <n4bp@bc.seflin.org>
 - 26) [85418] N4BP Holiday Spirit Sprint
by Bob Patten <n4bp@bc.seflin.org>
 - 27) [85419] Holiday Sprint es DP
by "Neil" <ntan@crosslink.net>
 - 28) [85420] Re: W0UFO now warbling
by "Dave Benson" <nn1g@earthlink.net>
 - 29) [85421] OT: Thanks for the 160 kit information
by "John Burnley" <burnleyia@home.com>
 - 30) [85422] for sale: Heil equalizer/MFJ SW rcvr
by Michael Goins <mgoins@usa.net>
 - 31) [85423] K2 Mic Pre-amp kits
by Bob Hightower <nk7m@extremezone.com>
 - 32) [85424] Re: NC 20-M
by RangerSF5@aol.com
 - 33) [85425] FYBO 2001 Announcement
by Bob Hightower <nk7m@extremezone.com>
 - 34) [85426] Arkicon Info?
by Glen Reid <k5fx@flash.net>
 - 35) [85427] Osc-phase noise-fm'ing
by David Shalita <davidr@cnmnetwork.com>
 - 36) [85428] K2 #1272 SOLD
by "Dean M. Rachwitz" <dean@totaltourtech.com>
 - 37) [85429] Re: Osc-phase noise-fm'ing
by "Karl F. Larsen" <k5di@zianet.com>
 - 38) [85430] Precision Regulation question
by "Mike Yetsko" <myetsko@insydesw.com>
 - 39) [85431] SSTV - QRP style
by Bcieslak@ra.rockwell.com
 - 40) [85432] Re: Precision Regulation question
by "Bob Tellefsen" <n6wg@earthlink.net>
 - 41) [85433] Scope Power Measurements
by "Davies, Doug A FOR:EX" <Doug.Davies@gems3.gov.bc.ca>
 - 42) [85434] RE: Is ten meters open 24 hours a day?
by Gary Lee Phillips KA9NZI <ka9nzi@arrl.net>
 - 43) [85435] Re: Precision Regulation question

by "Mike Yetsko" <myetsko@insydesw.com>
44) [85436] RE: Battery voltage
by "Kanalz, Karl" <Karl.Kanalz@allegiancetelecom.com>
45) [85437] Battery Info
by "Jim Gelbort" <jamesgelbort@worldnet.att.net>
46) [85438] Re: Square Coaxial Transmission Line
by "Lau, Zack, W1VT" <zlau@arrl.org>
47) [85439] December Bacon Bits
by Shepherd@aol.com
48) [85440] RE: Battery Voltage "The VOLTER"
by "Kanalz, Karl" <Karl.Kanalz@allegiancetelecom.com>
49) [85441] RE: Battery Voltage & calibration
by "L. Mark Pilant" <n1vqw@arrl.net>
50) [85442]
by "Ron, KU7Y" <ku7y@qsl.net>
51) [85443] RE: Battery Voltage "The VOLTER"
by n2cx@voicenet.com
52) [85444] Re: [Elecraft] FYBO 2001 Announcement
by Bob Hightower <nk7m@extremezone.com>
53) [85445] Re: FYBO 2001 Announcement
by Bob Hightower <nk7m@extremezone.com>
54) [85446] RE: 10 m. QRP beacons [was: Is ten meters open 24 hours a day?]
by Gary Lee Phillips KA9NZI <ka9nzi@arrl.net>
55) [85447] Contest: CW Interface Kits-ALL GONE!
by Brian Kassel <bkassel@dancris.com>
56) [85448] FS: HW8 for sale
by N10DL@aol.com
57) [85449] O'Scopes
by NM5Mike@aol.com
58) [85450] FS: TenTec Scout
by "Jeff Davis" <n9avg@indy.net>
59) [85451] Any Warblers in the SE?
by Paul Womble <pwomble1@tampabay.rr.com>
60) [85452] Western Warblers
by Mike Gipe <mgipe@reliablemeters.com>
61) [85453] Dry cells in fridge
by "Stuart Rohre" <rohre@arlut.utexas.edu>
62) [85454] PSK-40 Alive in Fresno
by dave_epps@juno.com
63) [85455] DK9SQ end-plug pops off!
by "Steve/n0tu" <n0tu@webaccess.net>
64) [85456] Re: Dry cells in fridge
by "bob baxter" <rbaxter@cybertrails.com>
65) [85457] Re: PSK-40 Alive in Fresno
by Phil Wheeler <w7ox@earthlink.net>
66) [85458] RE: 160mtr contest
by "Brian B. Riley, N1BQ" <n1bq@wulfden.org>
67) [85459] RE: Missed The Latest QRPp

by "Brian B. Riley, N1BQ" <n1bq@wulfden.org>
68) [85460] Re: 10 m. QRP beacons [was: Is ten meters open 24 hours a day?]
by "bob baxter" <rbaxter@cybertrails.com>
69) [85461] RE: Missed The Latest QRPp
by "Juan Ferrari" <puntrad@usa.net>
70) [85462] Re: Dan's 15% OFF SALE
by Oscar A Hoyt <k5ubs@juno.com>

Date: Mon, 4 Dec 2000 09:25:54 +0900
From: Junichi Nakajima <nakaji@crl.go.jp>
To: qrp-l@Lehigh.EDU
Subject: [85393] Re: MIZUHO 10m qrp handheld
Message-ID: <200012040023.JAA28891@ryuu.crl.go.jp>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii

Hi,

Mizuho MX-10 is the best one to enjoy the SSN maximum.
The regular line-up are 7,21,50MHz. Mizuho sporadically
made 3.5,14,18,24,28 and 144MHz version.
Especially 18 and 24 are the few. 28MHz is often found
but not so many as the 7,21,50MHz.

Regular retail price is 32000yen in here. In Japanese aucion,
you can find them between 10000-20000 yen depends its condition.

Sometimes U.S. QRPer told me the MIZUHO is expensive.
But the QRP rig is the smallest reliable SSB/CW transceiver
in your backpack.

JL1KRA, Junichi.

Date: Sun, 3 Dec 2000 19:28:11 -0500
From: "Brian B. Riley, N1BQ" <n1bq@wulfden.org>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [85394] FOX Cub - 4 December 2000 - correction of the correction (2)
Message-ID: <LPBBJAGIPFHKPJENAKLOEEPNDDBAA.n1bq@wulfden.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi gang,

well the big night (for me anyway) is fast approaching tomorrow (Monday) evening from 0200-0400z Tuesday I will take my first turn as Monsieur le Fox ... I will start out at about 7141 KHz and listen +/- 1KHz via my RIT. I am just not experienced enough yet to work split very well. If 7142 area becomes untenable due to BC band QRM. I will try 7120 +/-;

I will call: QRZ FOX DE N1BQ K

I expect: <yourcall>

I will send: <yourcall> 55N VT BRIAN 5W <yourcall> BK

You will send: <rst> <state> <yourname> <power> BK

I confirm by sending: TU. QRZ FOX DE N1BQ K
or request repeat.

I will be running my Alinco DX77T set to 5 watts to a G5RV that has pretty good exposure all around. I am a 'slow-code' Extra and I guarantee that it won't go over 10 wpm. I have a Tick3 keyer and will have both memories programmed with the cal and half the response so my fist will have as little opportunity as possible to screw up ... don't know what else to say except ... TALLEY HO!

p.s. sorry for the repeat, I left out the Hounds name in the hound reply form above, its now shown.

p.p.s sorry for yet another repeat, but I left out the frequency of operation.

72 de brian, n1bq

--

N1BQ-3 @ 44 31.73N 072 51.55W

WideN-N digi and weather station in Underhill Center, VT

mailto:n1bq@wulfdn.org

AMSAT LM-1418 NJQRP #274

QRP-L #2276 Zombie #768

Date: Mon, 04 Dec 2000 00:37:55 +0000

From: Michael Neverdosky <mneverdosky@earthlink.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [85395] Looking for small transmitters, 144 and 440 Mhz
Message-ID: <3A2AA113.BA5C9797@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I am looking for designs for 144 and 440 Mhz FM transmitters.
I prefer xtal controlled and small size is important.
Low power, as the range needed is line of sight with no
obstructions.

While I am asking, does anybody know of a source for an
automatic ID unit?

thanks

michael N6CHV

Date: Sun, 3 Dec 2000 17:55:40 -0700
From: "al dawkins" <alk0frp@home.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [85396] ARCI Sprint K0FRP
Message-ID: <006001c05d8c\$ec186440\$0300a8c0@home>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Wow Two contests in one weekend.
ARCI Sprint
127 Q's 78 sections 294,294
NOW I HOW CAN I MAKE A DOUBLE 294.
W6ZH was the last at 2359Z on 40m

40 m 27 q's 18 spc's
20 m 57 q;s 30 spc's
15 m 19 q's 13 spc's
10 m 23 q's 17 spc's
126 q's 78 spc's

W9FNB 200 mw great job

Sorry there were stations I could not copy and that is rare. If I hear them
I can usually pull them out but today I lost at least 3, my 53 year old

ears may be loosing thier charm.

Al K0FRP

Date: Sun, 03 Dec 2000 17:06:24 -0800
From: Phil Wheeler <w7ox@earthlink.net>
To: jamesd1@flash.net
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [85397] Re: Help: Looking for 160 meter kit information
Message-ID: <3A2AEE10.5DA55158@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

NN1G (SWL) says it has not been around for several years.

Phil W7OX

"James R. Duffey" wrote:

>
> John - The 160 M version of the SW+ is no longer listed on the SWL web page.
> - Duffey
> --
> James R. Duffey KK6MC/5
> 30 Casa Loma Road
> Cedar Crest, NM 87008

Date: Sun, 3 Dec 2000 20:56:40 -0600
From: Bill Stietenroth <k5zty@juno.com>
To: qrp-l@lehigh.edu
Subject: [85398] QRP-ARCI Holiday Sprint
Message-ID: <20001203.205641.-3790089.3.k5zty@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

Finally, some good conditions. I worked N0UR and VE3WZ on 4 bands and HP1AC on 3 bands and worked my friend K0C0/m, so it was a good contest. Had many other multi band contacts also. Thanks to all who played.

Bill, K5ZTY
Houston, TX
QRP-ARCI# 8817

139 Qs
87 Mults
7 Pwr mult
366,618 score

Date: Sun, 3 Dec 2000 18:36:59 -0500
From: hamjoel@juno.com
To: qrp-1@lehigh.edu
Subject: [85399] WYOMING U SAY?
Message-ID: <20001203.205509.-276203.0.hamjoel@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

sTEVE
STEVE

try checking into the 3905 40 meter ssb net which starts at 0000Z
wyoming an't that rare there and I'm sure u can get them to qsy for u
freq starts at 7.233.5mhz and changes as the qrm from foreign bc comes
and goes... other freqs are 7238 or 7240 listen around u'll find em...
good luck
or go to 80mtrs 3.904mhz ssb they start at 0200 Z
somebody will give u a hand
kella
joel in maine

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<http://dl.www.juno.com/get/tagj>.

Date: Sun, 3 Dec 2000 21:00:24 -0500
From: "Joe Malloy" <jmalloy@hamilton.edu>
To: <qrp-1@Lehigh.EDU>
Subject: [85400] RE: 160mtr contest
Message-ID: <000201c05d95\$f702a5b0\$ae47eed8@mozart>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Nick, I figgered there was so much activity on 160 during the contest that
I would enter it with my 5 watts and 80-10 meter G5RV -- and for the few

hours I put it, I think it did a creditable job! I was well pleased with my K2, but I have been since May, and the friendliness of the operators. All told I figure I have 50 Q's in 18 sections but no real DX among them, it wasn't even heard that much. Still, I can't wait for the next one - maybe I'll have a real 160m antenna!

72,

Joe, W2RBA

> Date: Sun, 3 Dec 2000 10:35:08 -0600
> From: Nick Kennedy <nkennedy@tcainternet.com>
> To: "'n1bq@wulfden.org'" <n1bq@wulfden.org>, Low Power Amateur
> Radio Discussion <qrp-1@Lehigh.EDU>
> Subject: [85358] RE: 160mtr contest
> Message-ID: <01C05D14.B5D46AA0.nkennedy@tcainternet.com>
> MIME-Version: 1.0
> Content-Type: text/plain; charset="us-ascii"
> Content-Transfer-Encoding: 7bit

> QRP wouldn't be for the faint hearted in this one, and being
> faint hearted
> I ran 150 watts. I'd imagine that with 5 watts and a good antenna you
> could score lots of sections and QSOs, but probably wouldn't
> have much luck
> calling CQ.

> 133 QSOs in 37 sections including VP5 but didn't even work
> California or
> Canada.

Date: Sun, 3 Dec 2000 20:38:26 -0500
From: "Mike Rhodes" <weightdn@bright.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [85401] Missed The Latest QRPp
Message-ID: <01bc01c05d96\$29db7660\$1b18c9d8@srrhodesml>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

ALAS, I sent in my renewal to QRPp too late and missed the issue mailed on 11/1 !! Does anyone have an extra they are willing to part with? Will gladly pay cover plus shipping ! Thanks.

Mike / W8DN

Date: Sun, 3 Dec 2000 21:22:49 -0500
From: Sam Billingsley <SBillingsley@usaninc.com>
To: "_AAAA_NOGA_onlist (E-mail)" <nogaqrp@qth.net>, "Klqrp_Submit (E-mail)" <klqrp@applegate.org>, "Qrpl_Submit (E-mail)" <qrp-1@Lehigh.EDU>
Subject: [85402] Notes on Moding the GA Sierra to 6 meters
Message-ID: <21B97A0171C2D4119E200002A50A53D40F50EB@MAILSERVER2>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

WARNING TO READERS:

The MODs below have values that will only work with the GA Sierra and NOT the NORCAL or WILDRENESS SIERRAS.

The reason is the GA Sierra uses a different IF frequency (4.000 MHz) and a different VFO freq range (5.8 - 6.0 MHz). ALL pre-mix XTALS are available cheap over the counter XTALS from several of the mailorder parts houses. This was a KEY criteria for Mike W3IRZ in developing the Moded Sierra from the beginning. Fortunately there was a XTAL for 6 meters too.

The NORCAL and WILDERNESS Sierra's can be MODED but you will have to take into consideration thier IF and VFO frequencies in determining the pre-mix XTAL value. More importantly the BANDPASS filters may or maynot be adequate given the NORCAL/WILDERNESS values. This has not be tried with either version. The GA Sierra Mods below yield acceptable spurious and harmonic supression for current standards. I used my W7ZOI Spectrum Analyzer to check all spurs below 70 MHz. Since the 6 meter band is very wide when compared to the lower HF bands you will need to pick a range to use with you VFO values. In the GA Sierra we picked about a 200 kHz range of interest (ie 50.000 - 50.200). Your mileage may vary.

*
Sam/AE4GX Notes on Bulding the 6 meter GA Sierra Band Module

*

Many of the GA Sierra builders may never try to do the 6 meter module but it has been interesting and it's good that the experiences learned from the 15/10 meter modules helps to get to the 6 meter operation going.

I used a combination of things to get my GA Sierra on 6 meters. Keep in mind that I have tried some of the Wayne Burdick Wilderness Sierra MODs that could affect the 6 meter performance. Mike's is standard NORCAL in these MOD areas so his results may vary (better or worst). Mine is just one approach but you may want to study it for ideas.

My Sierra Tuning range with no changes to GA Sierra VF0: 50.130 to 50.400
**good for SSB/AM

My Sierra tuning with adding a 33pF NPO cap in parallel to C53: 50.010 to 50.230 **good for CW/SSB

The pre-mix xtal used 40.32 HC-49 from Digi-key

***** all inductors wound with #24 enameled wire you can use larger gauge
**probably better I think Mike uses #20

The pre-mix Overtone inductor MOD T37-6 8-9T **not too critical ** Mike has a small trimmer in parallel but I didn't use a trimmer.

The post pre-mix BANDPASS filter c trimmer 8-70 (35pf used for calc.)
inductor 0.34uh (L3 and L4) T37-6 11T

The TX pre-driver BANDPASS filter c trimmer 8-70pf (35pf used in calc)
inductor 0.288uh (L8 and L9) T37-6 10T

The RX T/R series LC filter c trimmer 8-70pf (20pf used in calc) inductor 0.504uh (L1) T37-6 13T

The RX mixer secondary c trimmer 8-70(35pf used in calc) inductor 0.288uh
T1
T37-6 10T The RX mixer primary 2T

The final filter is a 5 pole elliptical. It looks the same as the 5-pole in the normal Sierra except that the inductors are paralleled with caps. These two LC ckts from very high impedance's to the 2nd and 3rd harmonics thus giving the filter better harmonic suppression.

L5 and L6 0.21uh T37-6 8T
C1, C3 (end caps) 47pF
C2 (center cap 94pf or 2X47pf)
C4 (parallels L5) 5pf
C5 (parallels L6) 12pf

The above filter yields better than 50dbc from about 85 mHz and up (better than 70 dBc in notches)

The plain jane Handbook 5-pole LP yields about 30dBc at 100 mHz and gets up to about 50dBc at 150mHz.

So the filter is at least 20 dB more attn for the price of two caps.

Plus the Sierra board can be used as is with the parallel caps being soldered to the inductor leads before soldering the inductors onto the board.

One more critical thing I did was to change the 2N2222A driver to a PN2159 and the final transistor from a 2N5109 back to a 2N3553.

The 2N3553 is the normal specified final so you may be OK there and the 2N2222A may be hot enough but you'll have to play with it.

Mike W3IRZ was thinking about adding a two stage driver (or hotter driver) to get the output of 15/10/6 mtrs up to above 1Watt.

Mike and I are still playing around with driver/final combinations.

So food for thought! Good luck!

Sam AE4GX

*

Mike/W3IRZ Notes on Building the 6 meter GA Sierra Band Module

*

All coils are T37-6 cores and #22 wire. All trimmers are 70 pf.

L8/9; L1 = 19 turns

L3/4 = 8 turns

T1 = 11 turns and 1 turn

L overtone = 5 turns with 70 pf trimmer

L5/6 = 7 turns

C47/49 = 60 pf

C48 = 120 pf

XTAL = 40.320 khz

P0 in the 500 - 600 mw

Driver was changed from 2N2222 to 2N5179 and heat sink

I used a WECO 46A and WECO heatsink because I had it and it worked

Mike W3IRZ

Notes on the 3rd O.T. (Overtone Xtal) Pre-mixer Osc Mod

We found in the datasheet for the NE602 a neat description on use of 3rd OT xtals in the osc. The data sheet gives the calculation for the reactance value. We had previously used this technique for our 10 meter modules.

Basically the pin7 of U7 the pre-mixer has an inductor AC coupled to ground providing a low impedance path for the fundermental and not really affecting the 3rd harmonic. With the inductor the output of the osc. shows no fundermental signal level. Without the inductor the fundermental and all the harmonics are seen on a spectrum analyzer.

We had to put the inductor on the band module and so it would be active only when needed. So we used pin 24 on the band module (it was previously grounded) and connected a 0.1 uF cap from pin 24 to the junction of C68 and C69. The inductor on the band module can be placed on either side of the board.

We hope the notes above will be interesting to some of you and we'll be looking for you on 6 meters this Winter. We recommend that QRPers use 50.096 to 50.098 MHz for calling to avoid the beacons and the QRO guys.

Happy VHF QRPing!

Sam Billingsley AE4GX Atlanta, Ga North Georgia QRP Club (NOGA)

Date: Mon, 4 Dec 2000 02:12:00 +0000

From: Larry S Cahoon <wd3p@juno.com>

To: qrp-l@Lehigh.EDU

Subject: [85403] Milliwatting Fun hunting Counties

Message-ID: <20001204.022847.-430621.0.wd3p@juno.com>

MIME-Version: 1.0

Content-Type: text/plain

Content-Transfer-Encoding: 7bit

Hi Gang - this was a fun weekend hunting counties using milliwatts. Saturday WU3H/M headed from CO down to Southern NM and is now returning back to CO as I write. During his trip I've worked him three times at 5 watts and 16 times at 500 mWatts. That would come out to 16 of those 1,000 mile per watt awards in one weekend with one guy.

Mike knows that I'm playing the milliwatt game. Saturday evening I worked him in Chaves County, NM on 20 meters and then shortly thereafter on 40 meters. When he returned to 20 he asked a mutual county hunter,

W0GXQ, up in MN to ask me how much power I was running. This was the easy way to get the info as he was giving me 229s and 339s all weekend. When he heard 500 mWatts on both bands the next question was the obvious what kind of antenna do you have. The simple answer was a set of dipoles. This stuff really makes an impression on the effectiveness of the low power stuff.

So as I worked Mike today on his trip home I could just hear the excitement in the music of his CW signal every time he copied my call and signal report back to him.

Mile was only one of four mobiles I managed to work this weekend at 500 mWatts. And to top it off I picked up V51AS on 10 Meters in between working the counties also at 500 mWatts. And he only gave me a 569! I'm going to have to work out the miles per watt on that one.

73 de Larry.....WD3P in MD
<http://www.qsl.net/wd3p>

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Date: Sun, 3 Dec 2000 21:35:01 -0500 (EST)
From: George Gingell <k3tks@u1.abs.net>
To: "George, W5YR" <w5yr@att.net>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [85404] Re: Battery Voltage "The VOLTER"
Message-ID: <Pine.BSF.4.21.0012032126190.50019-100000@u1.abs.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

George,

Thanks for the comments. You know I just realized that the DuraCell Brand Battery is an Alkaline Cell rather than a Carbon Zinc Battery.

I just went downstairs and Pulled 3 Brand New DuraCell "D" Cells out of their package and measured them with the FLUKE 87. All Three measured 1.582 VDC No Load.

If that is not correct, I can only Assume that my meter is out of Calibration?

It would appear that there is a definite difference between Alkaline and

Carbon Zinc Cells.

I don't have the reference data handy, but I might also add that The Mercury Cell is reported as 1.34 VDC No Load per the same book that I mentioned earlier.

Maybe if I dig around the library some more, I can find one of the Reference Books with the Appropriate Data.

In any case thanks for the reminder about the difference of Chemistry.

It would appear that is a correct assumption, in this case..

Sir George, The First :^)

72 ES

QRP DX TU (C) 1986, G. "Danny" Gingell, K3TKS@ abs.net
Former QRP A.R.C.I. Net Manager and Board of Director Member.
Gingell & Company, Ltd. Small Business Telephone Systems
Notary Public and Locksmith Services
George D. Gingell, Jr. 3052 Fairland Road, Silver Spring, MD 20904-7117
Maryland Milliwatt Club QRP Reference Library, (301)572-6789
Maryland Milliwatt Club Founder and Trustee of Club Station - WQ3RP -
Grid Square FM19mb 76.94 W - 39.06 N Silver Spring, MD 20904 QRPea.A.

On Sun, 3 Dec 2000, George, W5YR wrote:

> Just a thought:

>

> I wonder if the chemistry of the DuraCell batteries being different from
> the traditional carbon-zinc cells would account for their open-circuit
> voltage being different from what you expected?

>

> 72/73, George W5YR - the Yellow Rose of Texas NETXQRP 6

> Fairview, TX 30 mi NE Dallas in Collin county QRP-L 1373

> Amateur Radio W5YR, in the 55th year and it just keeps getting better!

> Icom IC-756 PRO #02121 (9/00) Kachina #91900556 (12/99) IC-765 (6/90)

>

>

> George Gingell wrote:

> >

> > Jim,

> >

> > I just ran downstairs and Measured a Fresh DuraCell 1.5 VDC Battery at

> > 1.609 VDC with My Fluke 87. I measured a fresh DuraCell 9 VDC Battery at

> > 9.48 VDC. Both NO LOAD. Actually I am a bit surprised with the results.
> > The reason being that I was reasonably sure Having measured much closer to
> > the accepted Standard of 1.56 VDC No Load for the Cell. Maybe I should go
> > do it again with a "D" Cell. I was using a Fresh "AA" Cell.
>

Date: Sun, 3 Dec 2000 21:40:45 -0500
From: "George Heron N2APB" <n2apb@erols.com>
To: "NJQRP" <NJQRP@njqrp.org>, "QRP-L" <qrp-l@lehigh.edu>
Subject: [85405] Warbler kits to ship week of Dec 11 from NJQRP
Message-ID: <01db01c05d9b\$9c8a5780\$0100000a@gheron>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

It's been a couple of months since the first round of PSK-80 "Warbler" transceivers had been distributed, and we wanted to give everyone an update on the state of the *next* round of Warbler kits being readied.

The NJQRP Club members have been working feverishly all along to collect parts for ROUND 2 of the Warbler kits, and we're currently in the full swing of kitting them up. There's nearly a full slate of orders from guys waiting for their Warblers to ship, and we're about 10 days away from being able to put about 250 of them into the mail. Therefore ...

*** Warblers will ship during the week of Dec 11 ***

Not all of these 250 kits are spoken for yet, so you can still get your order in and be pretty assured of getting one before Christmas ... but you better hurry :-)

Additionally, because of price changes in some of the components from the suppliers, the kit price will be increased a bit after Jan 1st.

In order to answer everyone's question of "Did you get my order?", we're now maintaining a list of those who have ordered and will be receiving a round 2 Warbler in December. This "Pending Orders" web page is located off the main Warbler page, and its direct address is <http://www.njqrp.org/warbler/orders.html> . One can also get the list sent to you immediately by email by sending a request to EMBOT@NJQRP.ORG with SEND ORDERS in the body of the message. We'll update the Pending Orders list each weekend, so if you sent in your order and don't yet don't see your name, it likely will be there soon.

Information concerning the Warbler (specs, description, ordering instructions, etc.) can be found on the Warbler web page at <http://www.njqrp.org/warbler> . An information file can be obtained immediately by email by sending a request to EMBOT@NJQRP.ORG with SEND WARBLER in the body of the message.

There's been a corresponding increase of activity in the 3580-3581 slice of 80m in big pockets throughout the country. We recently did a bit of an informal poll and found the most active and densely populated PSK-80 areas to be the Eastern seaboard, New England, and California. Texas, Washington state, mid-South (LA & MO), and the Midwest (Chicago) are all catching up pretty quickly with more and more guys using PSK31 on 80m. Even if you're not in one of these 'heavily-populated' areas, both the east- and west-coast crowds are working into the mid-continent. Don't be shy about joining in and filling in some of the holes on the map- you'll work people!

There is a bunch of interesting PSK31-related happenings coming in the near future ... we can't talk much about them right now, but each is guaranteed to capture the keen interest of PSKers through the country.

If you haven't yet taken the plunge to try this popular new digital mode on 80m, now may be the ideal time ... it's never been easier or less expensive! The NJQRP Club, along with designer Dave Benson, NN1G are together making this possible for the QRP community, and we're having a ball doing it. All proceeds from this project are being applied back into QRP through the other activities sponsored by the NJQRP -- the annual Atlanticon QRP Forum in March, follow-on fun QRP kits, QRP Homebrewer magazine, and more.

Hope to see you warbling on 80m soon!

72/73,

--George N2APB n2apb@amsat.org
--Joe N2CX n2cx@voicenet.com
--Dave, NN1G nn1g@eathlink.net

for the NJQRP Club at <http://www.njqrp.org>
and the PSK80 "Warbler" Transceiver at <http://www.njqrp.org/warbler>

Date: Sun, 03 Dec 2000 18:49:52 -0800
From: Phil Wheeler <w7ox@earthlink.net>
To: dave_epps@juno.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [85406] Re: PSK-40 New Small Wonder
Message-ID: <3A2B0650.2CE164EB@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

dave_epps@juno.com wrote:

>
> Another great kit from Dave Benson at Small Wonder Labs. I don't know how
> he does it and I'm really anxious to see what he will have next.
> I should have mine on the air tomorrow and will be looking for Warblers
> around 7.072 mhz.
> It is almost identical to the PSK-20 except that the 602's and many caps
> have been converted to smt and are pre-mounted. It also has a different
> case which I think is better.
> Naturally the crystals and tuned circuit values have been changed for 40
> meter operation. There are a few smt inductors that you have to install,
> but they are large ones and mount easily.
> See details for the PSK-20 on Dave's webpage www.smallwonderlabs.com
> should all be similiar for the PSK-40. I bet one of these show up in
> George's new computerless PSK-31 rig.

Let's hope George left room for it in there!

73, Phil

Date: Sun, 3 Dec 2000 22:09:37 -0500
From: "Ron Polityka" <wb3aal@fast.net>
To: ". QRP-L" <qrp-l@Lehigh.EDU>
Subject: [85407] WB3AAL HB Sprint
Message-ID: <006f01c05d9f\$a3765b80\$d70f5cd1@wb3aal>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Hello,

Thanks to all for making a Q with me.
Sorry I could not pull out some station.

QRP ARCI Holiday Spirits CW Sprint

MODE = CW

CALL = WB3AAL S/P/C(QTH) = PA QRP # = 5318

SINGLE BAND = 40 Meters

BAND POINTS S/P/C

40 162 14

Total Points	X	Total S/P/C	X	Power Mult	+	Bonus Points	=	Final Score
162	X	14	X	10	+	5000	=	27,680

TOTAL OPERATING TIME = 3 Hours 10 Minutes

TRANSCEIVER = Small Wonder Labs SW-40+

POWER OUTPUT = 950 mW

ANTENNA = Butternut HF9V mounted 35' up on the roof with radials

COMMENTS = Wow, 40 meters was very good. I had several people come
back to my CQ at the same time. 72 Ron de WB3AAL

72 & 73
Good DXing

Ron Polityka
de WB3AAL
wb3aal@fast.net

vvv Eastern Pennsylvania QRP Web Page vvv
<http://www.n3epa.org>
Eastern Pennsylvania QRP Club Call
N3EPA E-mail address: n3epa@fast.net

EPA QRP #1 ARRL Life Member
KL7 QRP # 309 G-QRP # 3031

ARCI QRP # 5318 10 - X #13173
NorCal Zombie #625
ARS # 380 HI QRP #153
VA QRP Society #45 MI QRP #1703
K2 sn1392 NJ QRP #179

Date: Sun, 3 Dec 2000 22:06:25 -0500
From: putska@juno.com
To: qrp-l@Lehigh.EDU
Message-ID: <20001203.220629.-268785.0.putska@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

Need help debugging qrp rig produced by RADIOKIT Pelham , NH. designed by
Rick Littlefield , K1BQT . Receiver work ok --transmitter has problems
GARY KB2PQE

GET INTERNET ACCESS FROM JUNO!
Juno offers FREE or PREMIUM Internet access for less!
Join Juno today! For your FREE software, visit:
<http://dl.www.juno.com/get/tagj>.

Date: Sun, 3 Dec 2000 22:11:56 -0500 (EST)
From: George Gingell <k3tks@u1.abs.net>
To: Nick Kennedy <nkennedy@tcainternet.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [85409] RE: Battery Voltage "The VOLTER"
Message-ID: <Pine.BSF.4.21.0012032206110.50019-100000@u1.abs.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Sounds like a real good deal to me. It also goes to show that many of us
here have different ways to skin the same cat.

As I have said before, The simple solutions are usually the best. All of
this goes to show that we can enjoy this hobby with out spending
Megabucks.

I might have to start a new notebook with just "Tips from QRP-L"

"AAA 2 Q-Dope and on to Z-Match" :^)

Sir George, The First :^)

72 ES

QRP DX TU (C) 1986, G. "Danny" Gingell, K3TKS@ abs.net
Former QRP A.R.C.I. Net Manager and Board of Director Member.
Gingell & Company, Ltd. Small Business Telephone Systems
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George D. Gingell, Jr. 3052 Fairland Road, Silver Spring, MD 20904-7117
Maryland Milliwatt Club QRP Reference Library, (301)572-6789
Maryland Milliwatt Club Founder and Trustee of Club Station - WQ3RP -
Grid Square FM19mb 76.94 W - 39.06 N Silver Spring, MD 20904 QRPea.A.

On Sun, 3 Dec 2000, Nick Kennedy wrote:

> Coincidentally, I just yesterday measured the voltage of a new alkaline AAA
> battery with a calibrated Fluke DMM. It measured 1.6034 volts.
>
> I wasn't really checking the battery--I was checking out a cheap DMM I got
> from BG Micro for \$7. It measured 1.600 volts. I also did a check of the
> resistance of a relay coil and the cheapo meter was again within 0.2% of
> the expensive calibrated Fluke.
>
> I'm not saying this little throw-away meter is the equal of the Fluke, but
> I'm pretty pleased with it at the price. It does volts and current (to
> 10A) AC and DC, ohms, and also has a transistor Hfe function. It's tiny
> and accepts banana plug leads. Thought frugal QRPers might wanna know
> about this neat little backup meter.
>
> Back on batteries, I guess about 1.6 volts for a new unloaded alkaline cell
> is a pretty good standard.
>
> 72--Nick, WA5BDU
>
>
> -----Original Message-----
> From: George Gingell [SMTP:k3tks@u1.abs.net]
> Jim,
>
> I just ran downstairs and Measured a Fresh DuraCell 1.5 VDC Battery at
> 1.609 VDC with My Fluke 87. I measured a fresh DuraCell 9 VDC Battery at
> 9.48 VDC. Both NO LOAD. Actually I am a bit surprised with the results.
> The reason being that I was reasonably sure Having measured much closer to
> the accepted Standard of 1.56 VDC No Load for the Cell. Maybe I should go
> do it again with a "D" Cell. I was using a Fresh "AA" Cell.
>
>

Date: Sun, 3 Dec 2000 22:12:09 -0500
From: "George Heron N2APB" <n2apb@erols.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [85410] Re: PSK-40 New Small Wonder
Message-ID: <01e201c05d9f\$ff101080\$0100000a@gheron>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Lotsa room in the Portable PSK rig now. The "3 controller board" prototype I showed at Pacificon (DSP board, Spectral Processor board, and 8051 I/O board) has been reduced to a *single* PSK31 controller board ... working on software before finishing the pcb artwork. So far so good for introduction at Atlanticon in March.

73, George N2APB

=====
"Phil Wheeler" <w7ox@earthlink.net wrote:
> Let's hope George left room for it in there!

dave_epps@juno.com wrote:
> See details for the PSK-20 on Dave's webpage www.smallwonderlabs.com
> should all be similiar for the PSK-40. I bet one of these show up in
> George's new computerless PSK-31 rig.

Date: Sun, 3 Dec 2000 22:15:50 EST
From: K5BDZ@aol.com
To: qrp-l@lehigh.edu
Subject: [85411] FS: IC-740 Service Manual (Original)
Message-ID: <ba.e426f4d.275c6666@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

FS: IC-740 Service Manual (Original). \$25 plus \$4 shipping.
Bill, K5BDZ Please reply direct to K5BDZ@aol.com

Date: Sun, 03 Dec 2000 19:19:50 -0800
From: Jeff Dairiki <dairiki@dairiki.org>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [85412] Re: Square Coaxial Transmission Line
Message-ID: <200012040319.eB43Joe30463@matthews.dairiki.org>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii

In message <4.3.2.7.0.20001203172129.00a96e90@ENCODE.COM>, George Murphy writes:
>I am looking for help in a research project. Can anyone suggest a practical
>use for square coaxial transmission line (possibly UHF applications?)

Of course! It's for carrying square waves. (hi hi)

Sorry, I couldn't help myself.

But now I'm curious, what prompted the question?

Jeff

Date: Sun, 3 Dec 2000 23:07:52 EST
From: MertNellis@aol.com
To: qrp-l@lehigh.edu
Subject: [85413] W0UFO now warbling
Message-ID: <5c.4262766.275c7298@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Hi all,
Finally got my lil warbler working and made my first contact this Eve. Now
to get my technique refined. For an old died in the wool CW op this is quite
a milestone to be on digital mode for the first time. And even better, I
worked KB0P, Paul up on the MN Iron Range near where I grew up. The PSK80
kit is a real winner and will be looking for others too. Thanks to the NJQRP
Club.

Mert W0UFO MNQRP

Date: Sun, 3 Dec 2000 23:33:05 -0500

From: "Tim Cook" <timcook@erinet.com>
To: "QRP" <qrp-1@lehigh.edu>
Subject: [85414] FS: OHR DD-1 Digital Display
Message-ID: <012901c05dab\$5b188be0\$31705acf@erinet.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

OHR DD-1 Digital display with manual works great

\$55 + shipping

please email for more info...

73
Tim
Nz8J

Date: Sun, 03 Dec 2000 21:01:51 -0800
From: Phil Wheeler <w7ox@earthlink.net>
To: n2apb@erols.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [85415] Re: PSK-40 New Small Wonder
Message-ID: <3A2B253F.AAC8A5F@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

George Heron N2APB wrote:

>
> Lotsa room in the Portable PSK rig now. The "3 controller board" prototype
> I showed at Pacificon (DSP board, Spectral Processor board, and 8051 I/O
> board) has been reduced to a *single* PSK31 controller board ... working on
> software before finishing the pcb artwork. So far so good for introduction
> at Atlanticon in March.
>

Great!

Phil

Date: Sun, 3 Dec 2000 22:13:56 -0800
From: "Bob Tellefsen" <n6wg@earthlink.net>
To: <qrp-l@Lehigh.EDU>
Subject: [85416] 160m contest, complained too soon
Message-ID: <000501c05db9\$6340d4e0\$bafab3d1@oemcomputer>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Just finished duping my log and filling in the report to ARRL. Lost one contact as a dupe, and gained one multiplier. I'll take that trade any day. Wound up with 140 QSOs and 22 multipliers, for a score of 6160, 40 points better than my score last year. Way short of the 200 Qs I'd hoped for this year, but at least a (short) step forward. Hope everyone did as well as they wanted to to.
73, Bob N6WG

Date: Mon, 4 Dec 2000 02:45:51 -0500 (EST)
From: Bob Patten <n4bp@bc.seflin.org>
To: k0co <k0co@arrl.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [85417] Re: ARCI:tu K0EVZ, K5ZTY, N4BP, N5IW, WA7FLY
Message-ID: <Pine.3.89.10012040240.D2269-01000000@bc.seflin.org>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sun, 3 Dec 2000, k0co wrote:
>
> N4BP - 'S02R Bob' in. FLA
>
Aw, give it a rest - I was using my lonely K1. :-)

73,

Bob Patten, N4BP , ' ' ' , (0 0) Plantation, FL
-----o00o-()-o00-----

E-Mail: n4bp@bc.seflin.org
Web Page: <http://www.qsl.net/n4bp>
Brass Pounder BBS: (954) 472-7715

QRP ARCI #3412 FISTS #7871 ARS #799 SOC #1 Whiners #6

E-Mail: n4bp@bc.seflin.org
Web Page: <http://www.qsl.net/n4bp>
Brass Pounder BBS: (954) 472-7715=20

QRP ARCI #3412 FISTS #7871 ARS #799 SOC #1 Whiners #6

Date: Mon, 04 Dec 2000 06:52:40 +--05-0500
From: "Neil" <ntan@crosslink.net>
To: qrp-1@Lehigh.EDU
Subject: [85419] Holiday Sprint es DP
Message-ID: <200012041153.GAA11831@lycanthrope.crosslink.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7bit

Greetings all-

Decided to spend about an hour working the contest yesterday and thought it would be fun to let my DixiePixie warm the airwaves. And fun it was!...Being xtal controled, I thought at first it would be wise to answer CQ's. My first and only qso using this method was with W3DP, after that, minutes went by before I changed tacks and decided to call CQ. This is what I did the remainder of my operating time. It worked pretty well. I didn't run the table, but was really impressed with the reports I received and I am sure I would have been able to return the good rst's if I had not been rock-bound. There were a couple of exchanges that were very tuff to copy, but the op on the other end were patient. I even had a chat with a op during the 'test...I almost forgot that I was operating out of a mint tin!

My total score was 8080--7spc--10qso's-----450mw/dipole

72 and tn timer for the contacts

Neil wa4chq

>>>czech it out <http://www.qsl.net/wa4chq>

User of Arachne, the Ultimate Internet Client

-- Arachne V1.67, NON-COMMERCIAL copy, <http://arachne.cz/>

Date: Mon, 4 Dec 2000 07:08:31 -0800
From: "Dave Benson" <nn1g@earthlink.net>
To: <MertNellis@aol.com>, "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [85420] Re: W0UFO now warbling
Message-ID: <001401c05e04\$1211a400\$7c20fc9e@pavilion>
MIME-Version: 1.0

Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Mert-

Congratulations- and welcome aboard! FWIW- I copied you fairly well here on the east coast.

73- Dave, NN1G

-----Original Message-----

From: MertNellis@aol.com <MertNellis@aol.com>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: W0UFO now warbling

>Finally got my lil warbler working and made my first contact this Eve
>Mert W0UFO MNQRP
>

Date: Mon, 4 Dec 2000 07:18:54 -0600
From: "John Burnley" <burnleyia@home.com>
To: <qrp-1@lehigh.edu>
Subject: [85421] OT: Thanks for the 160 kit information
Message-ID: <002301c05df4\$c050d460\$1b790818@c149552-a.west1.ia.home.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Once again this list has come to the aid of someone looking for help and information. Thanks to all who responded to my request for 160 meter kit information. You guys/gals are the best!

I'm off to Minnesota now to attend a class and meet the MN QRP folks.

72, John NU0V

Date: 4 Dec 00 09:38:27 EST
From: Michael Goins <mgoins@usa.net>

To: qrp-1@LeHigh.EDU
Subject: [85422] for sale: Heil equalizer/MFJ SW rcvr
Message-ID: <20001204143827.2730.qmail@awcst094.netaddress.usa.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=US-ASCII
Content-Transfer-Encoding: quoted-printable

Have two Heil EQ-300 equalizers I don't need. Both increase audio output =
and
tailor the highs and lows. Either one, \$55 CONUS. =

Also have a MFJ World Radio Sw Receiver for %\$55 CONUS, will include a se=
t of
Nova 52 headphones and an amplified speaker. Radio looks new and works fi=
ne,
speaker is scuffed some on the sides and back.

Going out of town tomorrow, so please reply off list.

mike
wb5yjx

Get free email and a permanent address at <http://www.amexmail.com/?A=3D1>

Date: Mon, 04 Dec 2000 15:10:01 -0700
From: Bob Hightower <nk7m@extremezone.com>
To: elecrafft@qth.net, qrp-1@lehigh.edu
Subject: [85423] K2 Mic Pre-amp kits
Message-ID: <200012041504.IAA16167@enterprise.extremezone.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

The AZ ScQRPions have 28 of these kits left, and will not be making another
run. If you have a K2, or need a pre-amp for any mic on another rig (this
one will fit inside most mic cases).

If you work SSB, and need just a bit more 'oomph' in your signal, this is
the kit for you. You can check it out at
<http://www.extremezone.com/~nk7m/preamp.htm>.

If you are ordering, please email me for a confirmation number, and, when
you get it, send your check for \$10.00 to me at 1905 N. Pennington Drive,
Chandler, AZ 85224-2632. Please include a return address label, and mark
your confirmation number on your check.

Bob Hightower NK7M
Chandler, AZ
SOC #20
K2 #157/255, K1 #41

<http://www.extremezone.com/~nk7m>

Date: Mon, 4 Dec 2000 10:12:19 EST
From: RangerSF5@aol.com
To: qrp-1@lehigh.edu
Subject: [85424] Re: NC 20-M
Message-ID: <7d.dd7fd88.275d0e53@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Hi Gang,
I'm in the market for an NC 20-M with at least half of the mods built into
it and good audio.
Please reply direct.
Thanks
Bob
WA2HOQrp <tm>

Date: Mon, 04 Dec 2000 15:27:31 -0700
From: Bob Hightower <nk7m@extremezone.com>
To: qrp-1@lehigh.edu, elecrafft@qth.net, azqrp@extremezone.com
Subject: [85425] FYBO 2001 Announcement
Message-ID: <200012041522.IAA21998@enterprise.extremezone.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Announcing The 5th Annual FYBO (Freeze Your B____ Off) Winter QRP Field Day
Sponsored by the AZ ScQRPions.

*** SAFETY FIRST! PLEASE RESPECT THE WX AND YOUR OWN LIMITATIONS! ***

1400Z Feb 3 to 0200Z Feb 4 (Operate all 12 hours).

QRP HF Only. CW (5W max). Near QRP calling freqs (no WARC bands).
Categories: Single Op (Home/Field), Multi Op (Home/Field),
Work stations once per band. Score 1 point per QSO.

Exchange RST, State/Province/DXCC Country, first name, power out, and
temperature (Fahrenheit) at OPERATOR'S POSITION. Indoor stations must
report INDOOR temperature.

Example: 579 AZ Frosty 2W 40F

Multipliers:

SPCs (each counts only once overall),
Field Location: x4 (Field per ARRL FD definition),
Alternative Power: x2,
QRPP (less than 1W): x2,
Lowest Operating Temp (at OP'S POSITION):
 65+ F = x1;
 50-64 F = x2;
 40-49 F = x3;
 30-39 F = x4;
 20-29 F = x5;
 Below 20 F = x6.

Final Score: QSOs x SPCs x Temp Multi (x Field) (x Alt Pwr) (x QRPP).

Mail logs by March 4 to: Bob Hightower (NK7M), 1905 N. Pennington Dr,
Chandler, AZ 85224-2632. Include station description, category, op(s), and
max power out. For more info, send email to nk7m@extremezone.com or
visit <www.extremezone.com/~nk7m/fybo01.htm>.

Bob Hightower NK7M
Chandler, AZ
SOC #20
K2 #157/255, K1 #41

<http://www.extremezone.com/~nk7m>

Date: Mon, 04 Dec 2000 09:29:51 -0600
From: Glen Reid <k5fx@flash.net>
To: QRP-1 <qrp-1@lehigh.edu>
Subject: [85426] Arkicon Info?
Message-ID: <3A2BB86F.8FA2DAAE@flash.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Does anyone know the date and specific location of Arkicon?

Thanks.

gr
--

GLEN REID
...in the beautiful hill country of TEXAS...
Email: k5fx@arrl.net

"The difference between genius and stupidity is that genius has its limits"

Date: Mon, 04 Dec 2000 07:27:58 -0800
From: David Shalita <davidr@cnmnetwork.com>
To: qrp-1_ham <qrp-1@Lehigh.EDU>
Subject: [85427] Osc-phase noise-fm'ing
Message-ID: <3A2BB7FE.2B6ABD4@cnmnetwork.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hi,

My question concerns phase noise or FM content of an osc used as an LO in a mixer. Is this undesirable osc content due to possibly power supply noise or is it due to FM'ing of the basic osc output? Other causes?

A friend is building an osc circuit to cover 1-100mhz using switchable inductors.

His first circuit approach used an Ultra-audion osc which produced a undesirably very wide signal. Easy to see wide signal on Spectrum analyser or listen to width using RX and BFO.

His second approach used a Colpitts which produced a much better quite narrow signal.

He attributed the wider signal in Ultra-audion to FM'ing caused by collector-base voltage, VCB, changing the CB capacitance during each cycle causing FM'ing of output frequency.

Can someone comment on the difference between FM'ing and phase noise content of an osc with different circuits?
Are Colpitts, Hartleys, Ultra-audion apt to have different susceptibility?

Difficult for me to even ask this question.
Thank you for any help.

73, W6MIK, Dave

Date: Mon, 4 Dec 2000 08:40:11 -0700
From: "Dean M. Rachwitz" <dean@totaltourtech.com>
To: <elecraft@qth.net>, <qrp-1@lehigh.edu>
Subject: [85428] K2 #1272 SOLD
Message-ID: <NDBBLLDHFKDPMMKOJMJKAEFMCKAA.dean@totaltourtech.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

K2 #1272 has been spoken for. Thank you for all of the responses.

73,

Dean Rachwitz
K7ADN
Mesa, AZ

Date: Mon, 4 Dec 2000 08:58:59 -0700 (MST)
From: "Karl F. Larsen" <k5di@zianet.com>
To: David Shalita <davidr@cnmnetwork.com>
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [85429] Re: Osc-phase noise-fm'ing
Message-ID: <Pine.LNX.4.10.10012040848420.785-100000@cannac.ampr.org>
MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

On Mon, 4 Dec 2000, David Shalita wrote:

> Hi,
>
> My question concerns phase noise or FM content of an osc used as an LO
> in a mixer. Is this undesirable osc content due to possibly power
> supply noise or is it due to FM'ing of the basic osc output? Other
> causes?

First David, you need to use clean power and to get that you may need a 3 leg regulator and the capacitors for it. This should get you clean DC power.

FM noise can come from many sources, including just mechanical pickup from the coil in the oscillator.

>
> A friend is building an osc circuit to cover 1-100mhz using switchable
> inductors.

>
This sounds bad to me. A 100 MHz free running oscillator will not be very stable. I would build an oscillator that tuned from 5 to 6 MHz and then mix that with several crystal oscillators and bandpass filters. Not an easy task.

> His first circuit approach used an Ultra-audion osc which produced a
> undesirably very wide signal. Easy to see wide signal on Spectrum
> analyser or listen to width using RX and BFO.
>
> His second approach used a Colpitts which produced a much better quite
> narrow signal.

>
He just got about the right amount of feedback from the Colpitt's circuit. You need to get the feedback right or the output will be noisy.

> He attributed the wider signal in Ultra-audion to FM'ing caused by
> collector-base voltage, VCB, changing the CB capacitance during each
> cycle causing FM'ing of output frequency.

>
> Can someone comment on the difference between FM'ing and phase noise
> content of an osc with different circuits?
> Are Colpitts, Hartleys, Ultra-audion apt to have different
> susceptibility?

>

> Difficult for me to even ask this question.
> Thank you for any help.
>
> 73, W6MIK, Dave
>
>

Yours Truly,

- Karl F. Larsen, k5di@arrl.net (505) 524-3303 -

Date: Mon, 4 Dec 2000 11:27:59 -0500
From: "Mike Yetsko" <myetsko@insydesw.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [85430] Precision Regulation question
Message-ID: <000d01c05e0f\$2d1d7700\$2101a8c0@insydesw.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

A circuit question...

I have a circuit with a small uC in it where I'm using a capacitive input to an oscillator to detect changes.

But I'm having a problem with voltage regulation. I tried a small 78L05 but the oscillator is drifting around a bit.

Turns out it's just too touchy to hold steady even with TINY changes in V+. And since I wanted to power this from a 9v battery, I don't even have a solid source for a feeder...

So, I was about to just break that free and feed it from it's own regulator.

Now, I'm only drawing a few ma at best, and I was thinking...

Maybe just use a 5.1v Zener.

Anyone want to take a discussion of this direct out of the forum, or do people feel this is generic enough to stay here...

Mike

Date: Mon, 4 Dec 2000 10:26:13 -0600
From: Bcieslak@ra.rockwell.com
To: qrp-1@Lehigh.EDU
Subject: [85431] SSTV - QRP style
Message-ID: <OF1CF6C157.16BD15DC-ON862569AB.005834EE@ra.rockwell.com>
MIME-Version: 1.0
Content-type: text/plain; charset=us-ascii

Well the xyl was out of town, the 160 Meter dipole I built didn't work for squat. So with my newly found free weekend I tried my hand at SSTV. With these new SSTV programs that use the sound card it was really easy and a lot of fun. I arbitrarily chose the MSCAN program, Ran to radio shack to buy an audio cable and hooked the sound card up to the line output on my DSP filter. Lo and behold I was receiving SSTV pictures on 14.230 Mhz. Cool. After listening for a while I was amazed how well the DSP algorithms in the SSTV program were pulling signals out of the noise (PSK31 fans can appreciate this). I never activated the Timewave filter. Well I finally got brave and called one of the SSTV gurus to ask questions about sending pictures. He said ' Heck, just put your microphone up to the speaker connected to the sound card and hit the send key'. So I did and walla! I sent my first SSTV picture. After a few adjustment at the directions of my on the air mentor I was sending nice straight pictures. That was saturday afernoon. I spent all night creating pix in the .BMP format so by Sunday afternoon I had quite a gallery of stuff to go. After sending a few pix and getting the 'closed circuit' signal report. I cranked the power down to 5W. I spent the rest of the afternoon in QRP SSTV mode. Way too cool. So you PSK31 guys, get on SSTV to..all you need is the software.

Brian AE9K

PS my acoustically coupled set up has some risks. Like if the phone rings or you sneeze it will mess up the picture your sending. I hope to get rigblaster get an electrical hook up to the rig. But your rig may have the connections via an accesoory plug in the back.

Date: Mon, 4 Dec 2000 09:20:28 -0800
From: "Bob Tellefsen" <n6wg@earthlink.net>
To: <qrp-1@Lehigh.EDU>

Subject: [85432] Re: Precision Regulation question
Message-ID: <002401c05e16\$7fc544e0\$d5d0fc9e@oemcomputer>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Mike

Here's an easy experiment to try.

Put an 8v or 9v regulator between your 5v regulator and your 12v supply.
This may do two things for you. It should clean and stabilize the supply
into the 5v regulator.

Like I said, a cheap experiment. It should certainly give a more stable 5v
output.

73, Bob N6WG

Date: Mon, 04 Dec 2000 09:19:07 -0800
From: "Davies, Doug A FOR:EX" <Doug.Davies@gems3.gov.bc.ca>
To: "'qrp-1@Lehigh.EDU'" <qrp-1@Lehigh.EDU>
Subject: [85433] Scope Power Measurements
Message-ID: <60F1FEB31CA3D211A1B60008C7A45F43099800CA@blaze.bccsc.GOV.BC.CA>
Content-return: allowed
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

Well, I finally had both success and failure over the weekend figuring out
how to get the power measurement with the scope. I had to fiddle a bit with
the triggering but finally did get a really nice sine wave showing the
output of the Little Joe transmitter. That was the success.

While fooling around with the stuff I had on the bench, I inadvertently
hooked the power to the transmitter up backwards (I never thought I would do
anything that dumb!!). I heard a sizzle that sounded like frying eggs and
the prettiest blue smoke started emanating from the enclosure followed by
one of the worst stench in recent memory. Seems that I cooked the
electrolytic cap in the 12v line. A quick replacement of that cap and a
check of some other components just to be safe, and I was back on the air
again. Whew!!! I'm sure learning a lot trying to measure power with a
scope!

Doug VA7DD

Doug Davies
Bell-Irving Zone Forester

Kalum Forest District
Terrace, B.C.
250)-638-5125
(250)-638-5176 Fax
MailTo:Doug.Davies@gems3.gov.bc.ca

Date: Mon, 04 Dec 2000 11:16:20 -0600
From: Gary Lee Phillips KA9NZI <ka9nzi@arrl.net>
To: qrp-1@Lehigh.EDU
Subject: [85434] RE: Is ten meters open 24 hours a day?
Message-ID: <3A2BD164.6FA24EFF@arrl.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Yes, I know I'm "talking to myself". I just made an observation last night that seemed relevant to this thread. I've been listening a bit on 10 m. every evening since the subject came up (and in anticipation of the contest this weekend.)

Yesterday at about 2300Z I heard C6AIE working a largish pileup in split mode around 28.003. This was about an hour after my local sunset, and must have been more than two hours after his. Most of the calling stations were JAs.

Just for the heck of it, since I needed C6 anyway, I went ahead and called him with 5 watts. I got him after a few tries (I didn't count, less than 10, more than 3) and he gave me a 599. That was probably a more or less legitimate report, since he was giving out 559 and 569 to many stations.

The solar flux was down to 167 according to WWV, and the K index was 2 or 3. These should have been marginal conditions at best for QRP on 10 m. according to conventional wisdom I believe, yet I could hear both the Bahamas and Japan loud and clear, and I'm sure I could have worked the JAs as well if I'd taken the time (I already have lots of JA stations in the log this year.)

Presumably I am located right where there was an earth-based end point for one of the hops between C6 and JA1. But despite the sheer luck of that, it still shows that 10 m. is more often open than most people believe it is.

I'm still hearing that Argentine beacon on 28.199 every evening.

The call is LU1FHH, all it does is repeat the call sign over and over. Anyone know more about it? (Power output, antenna, QTH?)

-- Gary Phillips, Marengo, IL <mailto:ka9nzi@arrl.net>
KA9NZI, Seneca Twp., McHenry Co., IL Grid: EN52rg
QRP-L #2124 <http://www.qsl.net/ka9nzi/>

Date: Mon, 4 Dec 2000 12:50:10 -0500
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <n6wg@earthlink.net>, "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [85435] Re: Precision Regulation question
Message-ID: <002a01c05e1a\$abb80b60\$2101a8c0@insydesw.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hmm, yes, a good idea to at least test with under most situations. But I don't think I could easily implement that in my current configuration.

I need to power this off a 9v battery.

Right now I'm feeding the board with a very stable variable set to 9v. This comes in through a 'reverse protection' diode (which may have to go) then a FET. I feed some circuitry from the 9v unswitched feed (draw a couple of uA) and then some from the 9v switched at the 'load side' of the FET. I have to keep the capacitance down on the switched side or I have another issue... The 78L05 is also fed from this switched 9v line.

I wonder... I think I'm going to bypass the 78L05 for the oscillator and JUST use a Zener for that. I'll have to check my circuit, but I would be very surprised if my current in the actual oscillator section is over a milliamp or two.

Mike

> Here's an easy experiment to try.
> Put an 8v or 9v regulator between your 5v regulator and your 12v supply.
> This may do two things for you. It should clean and stabilize the supply
> into the 5v regulator.

> Like I said, a cheap experiment. It should certainly give a more
stable 5v
> output.
> 73, Bob N6WG
>
>

Date: Mon, 4 Dec 2000 11:47:42 -0600
From: "Kanalz, Karl" <Karl.Kanalz@allegiancetelecom.com>
To: "'res075cz@gte.net'" <res075cz@gte.net>, Low Power Amateur Radio Discussion
<qrp-1@lehigh.edu>
Subject: [85436] RE: Battery voltage
Message-ID:
<E78D8A9D6762D411B5440008C791D4AA01303293@dfwex03.allegiancetelecom.com>
MIME-Version: 1.0
Content-Type: text/plain

A regular, FRESH, carbon-zinc cell, NOT an alkaline, is exactly 1.56 volts
across its terminals.

Karl K - W8TIF
McKinney, Texas

> -----Original Message-----
> From: James Parsons [SMTP:res075cz@gte.net]
> Sent: Friday, December 01, 2000 9:26 PM
> To: Low Power Amateur Radio Discussion
> Subject: Battery voltage
>
> I am getting ready to build a QRP rig and want to be sure my digital
> voltmeter is calibrated on the DC range. I suspect it is off.
>
> I will use as a reference a fresh D cell and nine volt battery. My
> question
> is, are these batteries EXACTLY 1.5 and 9 volts respectively, or some
> fraction over the stated amount?
>
> Thanks and 73
>
> Jim, K5ROV

Date: Mon, 4 Dec 2000 11:59:26 -0600

From: "Jim Gelbort" <jamesgelbort@worldnet.att.net>
To: <qrp-1@Lehigh.EDU>
Subject: [85437] Battery Info
Message-ID: <000901c05e1b\$f1c4ac20\$b1ad4b0c@rob>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello,

Can anyone recommend a good gel-cell battery resource? I'm looking for info on specs, maintenance, cold weather performance, etc. Perhaps a recent magazine article or website link?

Thanks for any advice or input.

Jim Gelbort, N9WW
(Just two little letters, Santa: "K1")

Date: Mon, 4 Dec 2000 12:56:57 -0500
From: "Lau, Zack, W1VT" <zlau@arrl.org>
To: "'qrp-1@Lehigh.EDU'" <qrp-1@Lehigh.EDU>
Subject: [85438] Re: Square Coaxial Transmission Line
Message-ID: <125490A005E3D3118C9C00805FC743CC016B9BB3@kahless.arrl.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Very useful for power dividers. Unlike round coax, connectors are easily attached. 73--Zack W1VT

Date: Mon, 04 Dec 2000 13:07:48 EST
From: Shepherd@aol.com
To: <fpqrp-1@mpna.com>, <qrp-1@lehigh.edu>
Subject: [85439] December Bacon Bits
Message-ID: <52.43c7138.275d3775@aol.com>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: 7bit

Hot off the press, the December issue of the Flying Pigs QRP Club's Bacon Bits newsletter is now on-line for downloading at:

<http://www.mpna.com/fpqrp/news.html>

We at the Flying Pigs QRP Club hope each and everyone has a safe, and Happy Holiday!

72, oo
Dan, N8IE

Date: Mon, 4 Dec 2000 12:05:19 -0600
From: "Kanalz, Karl" <Karl.Kanalz@allegiancetelecom.com>
To: "'w5yr@att.net'" <w5yr@att.net>, Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [85440] RE: Battery Voltage "The VOLTER"
Message-ID:
<E78D8A9D6762D411B5440008C791D4AA01303295@dfwex03.allegiancetelecom.com>
MIME-Version: 1.0
Content-Type: text/plain

Very much so, George! A carbon-zince cell (fresh, that is!) measures 1.56 VDC. I don't know what the "official voltage" of a fresh alkaline cell is. Anybody out there know?

Karl K - W8TIF
(Just Up The Road in McKinney)

> -----Original Message-----
> From: George, W5YR [SMTP:w5yr@att.net]
> Sent: Sunday, December 03, 2000 12:41 AM
> To: Low Power Amateur Radio Discussion
> Subject: Re: Battery Voltage "The VOLTER"
>
> Just a thought:
>
> I wonder if the chemistry of the DuraCell batteries being different from
> the traditional carbon-zinc cells would account for their open-circuit
> voltage being different from what you expected?
>
> 72/73, George W5YR - the Yellow Rose of Texas NETXQRP 6
>
> Fairview, TX 30 mi NE Dallas in Collin county QRP-L 1373
> Amateur Radio W5YR, in the 55th year and it just keeps getting better!
> Icom IC-756 PRO #02121 (9/00) Kachina #91900556 (12/99) IC-765 (6/90)
>
>
> George Gingell wrote:

> >
> > Jim,
> >
> > I just ran downstairs and Measured a Fresh DuraCell 1.5 VDC Battery at
> > 1.609 VDC with My Fluke 87. I measured a fresh DuraCell 9 VDC Battery at
> > 9.48 VDC. Both NO LOAD. Actually I am a bit surprised with the results.
> > The reason being that I was reasonably sure Having measured much closer
> to
> > the accepted Standard of 1.56 VDC No Load for the Cell. Maybe I should
> go
> > do it again with a "D" Cell. I was using a Fresh "AA" Cell.

Date: Mon, 04 Dec 2000 13:27:35 -0500
From: "L. Mark Pilant" <n1vqw@arrl.net>
To: qrp-l@Lehigh.EDU
Subject: [85441] RE: Battery Voltage & calibration
Message-ID: <3A2BE217.B2E3B86F@arrl.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I second Jim's recommendation to use the AD581. I have used them in the past, and they are great for a relatively cheap DC standard. (BTW, Analog devices have some even more accurate chips available if you really need them. :-)

Also, in the July 2000 issue of QEX, Wayne Stanley (W4RDG) wrote an atricle detailing how to build an AC/DC calibrator. The article name is: "A Calibration Source for DC and AC Voltmeters."

I hope this helps.

73

- Mark N1VQW

Date: Mon, 04 Dec 2000 11:01:38 -0700
From: "Ron, KU7Y" <ku7y@qsl.net>
To: QRP-L <qrp-l@Lehigh.EDU>
Message-ID: <000901c05e20\$9b79f780\$67c6a9d8@com>
MIME-version: 1.0
Content-type: text/plain; charset="iso-8859-1"

Content-transfer-encoding: 7bit

Hi All,

Does anyone have the scores of the first hunts?

If you have any of them please let me know. We are trying to compile a history of the event and only have the past year or so!

I will not be the person collecting the data. I am just trying to find out if anyone has it! With my hit and miss email it's best if someone else do the collecting.

Anyone want to volunteer? :-)

Thanks for any help,

cul, Ron KU7Y

Full time RVing somewhere in the West!

Date: Mon, 4 Dec 2000 14:17:12 US/Eastern
From: n2cx@voicenet.com
To: qrp-l@lehigh.edu
Subject: [85443] RE: Battery Voltage "The VOLTER
Message-ID: <200012041917.0AA168650@nss4.cc.lehigh.edu>

Gang,

According to "Handbook of Batteries and Fuel Cells " by David Linden, McGraw Hill, 1984 ISBN 0-07-037874-6 "The open-circuit voltage of the alkaline MnO2 cell is about 1.52V."

That being said, the surest way for a homebrewer to get a known voltage reference at low cost is to use a voltage reference chip such as the ones already suggested earlier in this thread. Unless you very carefully control battery handling and environment, you can't rely on the terminal voltage.

Joe
E.

This message was sent using Voicenet WebMail.
<http://www.voicenet.com/webmail/>

Date: Mon, 04 Dec 2000 19:20:43 -0700
From: Bob Hightower <nk7m@extremezone.com>
To: Tom Hammond =?iso-8859-1?Q?N=D8SS?= <n0ss@earthlink.net>
Cc: eleccraft@qth.net, qrp-1@lehigh.edu
Subject: [85444] Re: [Elecraft] FYBO 2001 Announcement
Message-ID: <200012041915.MAA23830@enterprise.extremezone.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 09:41 AM 12/4/2000 -0600, you wrote:

>Bob:

>

>IF we operate outside, can we use EXISTING antennas and structures? OR must
>we use FD-type antennas as well?

>

>73 - Tom Hammond N0SS

>

We're not going to get into that. Use what you got. If you want/can sit out
in your yard with a Force 12 in the stratosphere, go ahead :^)

Bob Hightower NK7M
Chandler, AZ
SOC #20
K2 #157/255, K1 #41

<http://www.extremezone.com/~nk7m>

Date: Mon, 04 Dec 2000 19:32:35 -0700
From: Bob Hightower <nk7m@extremezone.com>
To: Paul Womble <pwomble1@tampabay.rr.com>
Cc: qrp-1@lehigh.edu, eleccraft@qth.net
Subject: [85445] Re: FYBO 2001 Announcement
Message-ID: <200012041927.MAA28311@enterprise.extremezone.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 11:32 AM 12/4/2000 -0500, you wrote:

>Hi Bob,

>

> Can you post the ARRL field location info so everyone will have the
> same thing?
>
> Thanks
> Paul K4FB

Actually, anywhere away from your house, a park, in the woods, etc. If you
work at your home QTH, outside will qualify as well. Inside is inside :^)

Bob Hightower NK7M
Chandler, AZ
SOC #20
K2 #157/255, K1 #41

<http://www.extremezone.com/~nk7m>

Date: Mon, 04 Dec 2000 13:39:04 -0600
From: Gary Lee Phillips KA9NZI <ka9nzi@arrl.net>
To: qrp-l@Lehigh.EDU
Subject: [85446] RE: 10 m. QRP beacons [was: Is ten meters open 24 hours a day?]
Message-ID: <3A2BF2D7.A6571171@arrl.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

I found the answer for LU1FHH, and a lot more, at this URL:

<http://users.isaac.net/so/nasgi/bcn.html>

This may interest those who were discussing 10 m. beacons
last week. It's a list compiled by K4DPC. The LU1FHH beacon
is located somewhere in Santa Fe province of Argentina,
and runs 5 watts to a vertical antenna. Its frequency
is supposedly 28.200, but I find it somewhat lower than
the group of NCDXF beacons that use that frequency.

-- Gary Phillips, Marengo, IL <mailto:ka9nzi@arrl.net>
KA9NZI, Seneca Twp., McHenry Co., IL Grid: EN52rg
QRP-L #2124 <http://www.qsl.net/ka9nzi/>

Date: Mon, 04 Dec 2000 10:07:24 -0700
From: Brian Kassel <bkassel@dancris.com>
To: QRP-L <QRP-L@lehigh.edu>, azqrp <azqrp@extremezone.com>

Subject: [85447] Contest: CW Interface Kits-ALL GONE!
Message-ID: <3A2BCF4C.56FB6E38@dancris.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Gangue:

If you haven't E-MAILED me, or if the postmark on your letter is later than 12-3-2000, I'm afraid that you will no longer be able to buy one of the PC-CW interface kits offered by the AZ ScQRPions and myself. We are all out of the kits, except for the folks who E-MAILED me to reserve their unit(s). Those 50 kits went fast! This offer was made possible by an E-BAY purchase that I had made, so no telling when another offer will be available in which we can purchase the parts so cheaply. Therefore this was a limited offer, and we are sold out.

Brian K7RE
AZ ScQRPions

Date: Mon, 4 Dec 2000 15:08:47 EST
From: N10DL@aol.com
To: qrp-l@lehigh.edu
Subject: [85448] FS: HW8 for sale
Message-ID: <59.3baa745.275d53cf@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

have decided to sell my HW-8 rig as I have only used it once in the two years I have owned it. My XLY also wants me to do some house cleaning to make room for the new addition. (baby) So....I am loosing my Shack. Have moved it to the family room but do not really have all the room I want. I am offering it to this group before I place it on E-Bay. I am in the process of figuring out what I want for it, so am open to offers. Please respond direct to me so as not to clutter up the QRP-L.
Thank you,
Aron
N10DL
Bedford, NH

Date: Mon, 4 Dec 2000 15:08:47 EST
From: NM5Mike@aol.com
To: qrp-l@lehigh.edu (Low Power Amateur Radio Discussion)

Subject: [85449] O'Scopes
Message-ID: <b6.e23c340.275d53cf@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

QRPers...

I remember some time ago seeing a post on the reflector about a company which sold used oscilloscopes.

I would appreciate any help in obtaining the name and telephone number of the company.

Regards,

Eric NM5M

Date: Mon, 4 Dec 2000 15:17:57 -0500
From: "Jeff Davis" <n9avg@indy.net>
To: "QRP-L" <qrp-l@lehigh.edu>
Subject: [85450] FS: TenTec Scout
Message-ID: <001001c05e2f\$6f615ee0\$2cdf9e@bob>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

TenTec Scout 555 with noise blanker, 80-40-20-15 meter modules, hand mike and 937 matching power supply. \$475 and I ship CONUS.

73 de Jeff

Date: Mon, 04 Dec 2000 15:51:53 -0500
From: Paul Womble <pwomble1@tampabay.rr.com>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [85451] Any Warblers in the SE?
Message-ID: <3A2C03E9.201CBC6A@tampabay.rr.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

My Warbler Order (say that 3 times fast!) went in today.

Is anyone else in the South East on 80m psk31? I'll give it a shot with the K2 until the kit arrives. I'm 35 miles East of Tampa, FL.

73

Paul K4FB

--

Polk County Chapter American Red Cross:
<http://www.redcross.org/fl/polkcounty>

Date: Mon, 4 Dec 2000 13:37:25 -0800
From: Mike Gipe <mgipe@reliablemeters.com>
To: "QRP-L list (E-mail)" <qrp-l@Lehigh.edu>
Subject: [85452] Western Warblers
Message-ID: <F988E2FF74F4D111A61F00A0C949D7A928F1AD@mission>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"

Gangue --

Had a fun QRP weekend.

Sunday morning was spent at the NorCal meeting. AK1P and I set off at a respectable hour under sunny skies in Silicon Valley to head up to the Livermore swapmeet. As we headed over the eastern mountains, we found the Livermore valley filled with chilling fog. We shivered our way through the swapmeet, then headed over to the California Burger to warm up with the NorCal gang. It was a good meeting, and I thoroughly enjoyed talking with these folks who share my insanity.

There were no less than three PSK-80 warblers at the meeting. I brought mine, which was tested and working but still a virgin, not yet having experienced social intercourse.

I was able to steal a couple hours of spare time and built my warbler on Saturday. As the last solder joint cooled, I warmed up the test equipment and started to check it out. The receiver looked good, and I could still see a trace on the waterfall at -120 dBm. The transmitter was putting out good power, but it was putting out a strange two-tone-like waveform, even under single tone tune mode. Our family had social plans for the evening, so I had to quit at this point. We returned at 10:30 Saturday evening, so I

went back to debugging the warbler. I finally traced it back to a piece of copper on the circuit board that had not been fully etched. It shorted out the undriven input of the NE612 transmit mixer, which upset the mixer bias, which unbalanced the mixer, which caused the carrier to be unsuppressed on the output, which passed somewhat attenuated through the crystal filter, and was amplified and sent to the antenna port. A quick job with an exacto knife removed the offending metal, and my warbler was operational.

Sunday night I hooked it up to my G5RV fed with a Johnson Matchbox Jr and put out a short CQ. To my surprise, I got an immediate reply from Marc W6ZZZ. I had an enjoyable 'first QSO' with Marc, who helped me adjust the PC's audio output level for good IMD performance.

I had to QRT to prepare dinner, but returned to 80 meters in time for the Western Warbler Net. I think it was a record turnout with W6ZZZ, AB5PC, KI6DS, K1MG, W6RCL, KC4WBE, KD7S, W3CD, and VA6RF checking in. That's quite a range from Los Angeles to Alberta!

On the second Digipan channel, I monitored KI0II and W0YSE in QSO from Colorado. At the end of the WW net, N0EKU jumped in and he and W3CD had a QSO. I'm amazed at how well a few watts of PSK31 works on 80 meters.

Thank you Dave Benson and the folks at NJQRP for making the warbler available. This is good stuff.

Unfortunately, the weekend comes all too soon, and it's back to work....

Mike K1MG
Saratoga, CA

Date: Mon, 4 Dec 2000 15:41:19 -0600
From: "Stuart Rohre" <rohre@arlut.utexas.edu>
To: <k6qq@hdo.net>
Cc: <qrp-l@Lehigh.EDU>
Subject: [85453] Dry cells in fridge
Message-ID: <013a01c05e3a\$f03f7aa0\$5ac07481@rohredt2000>

Actually, Dry Cells last quite well in DRY cold. We use them up in the Arctic to run recorders for one year on ice islands, D cells no less! Lots of them! They are buried in drums in ice to keep them no colder than freezing.

It is WET cold, (humidity in refrigerator), that does in the alkaline cells or any other, when the moisture gets thru the seals and the moisture also

corrodes the top and bottom tin plate steel.

G1,
Stuart K5KVH

Date: Mon, 4 Dec 2000 13:17:46 -0800
From: dave_epps@juno.com
To: qrp-l@lehigh.edu
Subject: [85454] PSK-40 Alive in Fresno
Message-ID: <20001204.134225.-270377.0.dave_epps@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

Worked at power-up. Another great PSK-31 transceiver kit from Small Wonder Labs.
You would have to try hard to make a mistake on this kit. Dave splits building instructions into assembly groups with pictorials for each group and check-offs at each step.
Can key (ptt) this one with rts or dtr. Specs. and performance will be like the PSK-20 which I also have and have been very satisfied with it. These are great portable, easy to operate transceivers.
Will be looking for Warblers on 7.072 mhz
dave ab5pc fresno, ca.

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<http://dl.www.juno.com/get/tagj>.

Date: Mon, 4 Dec 2000 15:38:05 -0700
From: "Steve/n0tu" <n0tu@webaccess.net>
To: "QRP-L" <QRP-L@lehigh.edu>
Subject: [85455] DK9SQ end-plug pops off!
Message-ID: <001501c05e42\$df132440\$b0561d82@sg2939h>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hey Gang,

Went trudging through the woods this weekend w/DSW and DK9SQ portable mast. Arriving at an overlook just before I summited I stopped to have a look and hosted off my pack resting my load on a rock. As I plunked down my DK9SQ mast against the same rock the end plug pop out and bounce over the edge. wosh...it was gone! Not a even a trace left in the snow covered ledge. Decide to not risk going after it! So I'm looking for ideas on a more rugged end cap for this mast. The one that comes with it is quite adequate in most cases I'm surebut the air temp on this outing was in about 10 degrees and my guess is the rubber stopper had gotten pretty hard and shrunk slightly in size causing it to easily fall out. ...Oh well?

Perhaps a hose clamp w/finger screw for quick release over the outside of a rubber/plastic end cap? But something a little more secure for my needs is definitely in the making. I also am looking for a way to toughen up or protect the bottom as I found myself using the DK9SQ as a walking sit (collapsed position of course! <g>) and the plastic bottom cap is getting a bit trail-worn looking. Maybe a tennis ball as a bottom cap?

BTW - I really like my DK9SQ mast. It's a quality product and worth the dough. (I haven't seen the MFJ product) It only takes about 10 minutes to through up an inverted-vee @33' and your on the air! If I know there's going to be plenty of tall trees where I'm headed I'll trade the mast for the wrist rocket and fishing line in a minute. But the mast is actually faster but just a little heavier to tote along. But "useful weight" as a walking stick is not the same as dead weight!

Steve/n0tu

Date: Mon, 4 Dec 2000 15:32:46 -0700
From: "bob baxter" <rbaxter@cybertrails.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [85456] Re: Dry cells in fridge
Message-ID: <000a01c05e42\$225f5760\$c3142aa2@bobbaxte>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Unless the practice has changed since my retirement, the recharged nicads used in airplane cabin emergency lights are kept in a refrigerator during storage. (by the scheduled commercial airlines) Having changed a few thousand of these batteries, over a long career, I never saw any evidence of corrosion or other damage due to storage under

refrigeration. It's a good idea to bring them up to room temperature before use though. Of course, these are not the standard nicad batteries that you buy at the local store.

Bob Baxter AA7EQ
Bisbee, Az.

>Actually, Dry Cells last quite well in DRY cold. We use them up in the
>Arctic to run recorders for one year on ice islands, D cells no less!
Lots
>of them! They are buried in drums in ice to keep them no colder than
>freezing.
>
>It is WET cold, (humidity in refrigerator), that does in the alkaline
cells
>or any other, when the moisture gets thru the seals and the moisture
also
>corrodes the top and bottom tin plate steel.
>
>Gl,
>Stuart K5KVH
>
>
>

Date: Mon, 04 Dec 2000 14:33:36 -0800
From: Phil Wheeler <w7ox@earthlink.net>
To: dave_epps@juno.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [85457] Re: PSK-40 Alive in Fresno
Message-ID: <3A2C1BC0.BD3B9C76@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

dave_epps@juno.com wrote:

>
> Worked at power-up. Another great PSK-31 transceiver kit from Small
> Wonder Labs.
> You would have to try hard to make a mistake on this kit. Dave splits
> building instructions into assembly groups with pictorials for each group
> and check-offs at each step.

> Can key (ptt) this one with rts or dtr. Specs. and performance will be
> like the PSK-20 which I also have and have been very satisfied with it.
> These are great portable, easy to operate transceivers.
> Will be looking for Warblers on 7.072 mhz
>

Dave,

I'll be looking forward to the uptick in 40 meter PSK31 activity that the PSK-40 promises. I'm in the LA area so daytime ragchews with you are a definite possibility.

My PSK-40 order will go in as soon as I see some activity!

73, Phil W70X

Date: Mon, 4 Dec 2000 17:50:55 -0500
From: "Brian B. Riley, N1BQ" <n1bq@wulfden.org>
To: <jmalloy@hamilton.edu>, "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [85458] RE: 160mtr contest
Message-ID: <LPBBJAGIPFHKPJENAKLOIEBPDCAA.n1bq@wulfden.org>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

> -----Original Message-----

> From: Joe Malloy
> Sent: Sunday, December 03, 2000 21:00 PM
> To: Low Power Amateur Radio Discussion
> Subject: RE: 160mtr contest
>
>

> Nick, I figgered there was so much activity on 160 during the
> contest that I would enter it with my 5 watts and 80-10
> meter G5RV -- and for the few hours I put it, I think it did
> a creditable job! I was well pleased with my K2, but I have
> been since May, and the friendliness of the operators.
> All told I figure I have 50 Q's in 18 sections but no real DX
> among them, it wasn't even heard that much. Still, I can't
> wait for the next one - maybe I'll have a real 160m antenna!

Though I never got on the air, I did tune up my DX77T on my 80-10 G5RV

with my MFJ-941D tuner and I was pleasantly surprised to get a near perfect match, probably had every but of inductance available switched in!!!! cannot wait til Spring when I put up the 500 foot coil of copper I have hear either as a long wore or a loop of some sort.

72/73 de brian, n1bq

--

N1BQ-3 @ 44 31.73N 072 51.55W
WideN-N digi and weather station in Underhill Center, VT
mailto:n1bq@wulfden.org
AMSAT LM-1418 NJQRP #274
QRP-L #2276 Zombie #768

Date: Mon, 4 Dec 2000 17:50:56 -0500
From: "Brian B. Riley, N1BQ" <n1bq@wulfden.org>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [85459] RE: Missed The Latest QRPp
Message-ID: <LPBBJAGIPFHKPJENAKLOKEBPDCAA.n1bq@wulfden.org>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

> -----Original Message-----

> From: Mike Rhodes

> Sent: Sunday, December 03, 2000 20:38 PM

> To: Low Power Amateur Radio Discussion

> Subject: Missed The Latest QRPp

>

>

> ALAS, I sent in my renewal to QRPp too late and missed the

> issue mailed on 11/1 !! Does anyone have an extra they are

> willing to part with? Will gladly pay cover plus shipping !

same here ... I sent my new sub in too close to mailing date also ...

72/73 de brian, n1bq

--

N1BQ-3 @ 44 31.73N 072 51.55W
WideN-N digi and weather station in Underhill Center, VT

mailto:n1bq@wulfden.org
AMSAT LM-1418 NJQRP #274
QRP-L #2276 Zombie #768

Date: Mon, 4 Dec 2000 15:59:07 -0700
From: "bob baxter" <rbaxter@cybertrails.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [85460] Re: 10 m. QRP beacons [was: Is ten meters open 24 hours a day?]
Message-ID: <002401c05e45\$d385f5a0\$c3142aa2@bobbaxte>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

A very good beacon tracking program that, I think I got from this group
some time back, is Beacon Clock at
<http://hunting.com/beaconclock/index.html> You will also need a
computer clock setting program like Atom Time <http://www.atomtime.com/>
to set your computer clock. It tracks 18 beacons around the world on
every band from 20m to 10m and gives the distances in Kms. and gives
short path and long path beam headings.

Bob Baxter AA7EQ
Bisbee, Az.

>I found the answer for LU1FHH, and a lot more, at this URL:
>
><http://users.isaac.net/so/nasgi/bcn.html>
>
>This may interest those who were discussing 10 m. beacons
>last week. It's a list compiled by K4DPC. The LU1FHH beacon
>is located somewhere in Santa Fe province of Argentina,
>and runs 5 watts to a vertical antenna. Its frequency
>is supposedly 28.200, but I find it somewhat lower than
>the group of NCDXF beacons that use that frequency.
>
>-- Gary Phillips, Marengo, IL <mailto:ka9nzi@arrl.net>
> KA9NZI, Seneca Twp., McHenry Co., IL Grid: EN52rg
> QRP-L #2124 <http://www.qsl.net/ka9nzi/>
>

Date: Mon, 4 Dec 2000 18:26:36 -0500
From: "Juan Ferrari" <puntrad@usa.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [85461] RE: Missed The Latest QRPP
Message-ID: <02f201c05e49\$a5943130\$5e35f2d8@juan>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I'm very worry about the QRPP.
I made my subscription in the first week of October (the check cleared at my bank on the 8th) and I have not received the Fall issue nor the latest.
I sent three mails to Doug with no answer.

Does any body knows what is happening??

73

Juan Ferrari

Date: Sat, 2 Dec 2000 11:10:24 -0600
From: Oscar A Hoyt <k5ubs@juno.com>
To: qrp-l@Lehigh.EDU
Subject: [85462] Re: Dan's 15% OFF SALE
Message-ID: <20001202.111203.-108593.0.k5ubs@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

I just sent an order off today. but was after the varactor for the 2n2/40, the MVAM109, and he had taken it off his list. at least I couldnt find it. So did a search for that part using GOOGLE and got listing for several and found it at D C Electronics so ordered a couple them. Google will find it if its on the net. Disclaimer, not associated with anyone, just a customer

Oscar Hoyt, ham since '55, ARRL, QCWA, QRP-L 1733, ARCI, NORCAL, SOC
303 303

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End of QRP-L Digest 2026
